## INTERNATIONAL SEARCH REPORT

Interr vinal Application No PCT/US2004/034915

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/47

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, PAJ, WPI Data, Sequence Search

| C. DOCUM   | ENTS CONSIDERED TO BE RELEVANT  |                             |
|------------|---|-----------------------------|
| Category * | Citation of document, with Indication, where appropriate, of the relevant passages  | Relevant to claim No.       |
| Х          | WO 02/085933 A (THE INSTITUTE FOR SYSTEMS BIOLOGY; ADEREM, ALAN; HAYASHI, FUMITAKA; UN) 31 October 2002 (2002-10-31) claims 1-19 page 19                        | 1,2,<br>5-13,16,<br>17      |
| X          | WO 03/070761 A (YEDA RESEARCH AND DEVELOPMENT CO. LTD; COHEN, IRUN, R; LIDER, OFER; NU) 28 August 2003 (2003-08-28) page 5, line 11 - line 15 claims 1,15,25,26 | 1,2,5-7,<br>10-13,<br>16,17 |
| A          | WO 01/43691 A (PEPTOR LTD; KOLB, HUBERT; ELIAS, DANA) 21 June 2001 (2001-06-21)  claims 1-7   | 1,2,<br>5~13,16,<br>17      |
|            |   |                             |

| LX | Fur | ther d | ocument | s ere | listed in | the e | continu | ation of | box C. |
|----|-----|--------|---------|-------|-----------|-------|---------|----------|--------|
|    |     |        |         |       |           |       |         |          |        |

Patent family members are listed in annex.

- Special categories of cited documents:
- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier clocument but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document reterring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

  Date of the actual completion of the International search
- "I" later document published after the international tiling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of malling of the international search report

22/08/2005

Name and realing address of the ISA

8 August 2005

European Patent Office, P.B. 5818 Patentilaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Authorized officer

Didelon, F

Form PCT/ISA/210 (second sheet) (January 2004)

page 1 of 2

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Citation of document, with indication, where appropriate, of the relevant passages

ASEA A ET AL: "Novel signal transduction pathway utilized by extracellular HSP70. Role of toll-like receptor (TLR) 2 and

JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE,

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

TLR4\*

MD, US.

Relevant to claim No.

1,2, 5~13,16,

## INTERNATIONAL SEARCH REPORT

| In( i | ational | applica<br>US200 | lion No |       |
|-------|---------|------------------|---------|-------|
| _     | PCT/    | ÚŠ20(            | 34/03   | 14915 |

| Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)   |
|--|
| This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:   |
| Claims Nos.:     3, 4, 14, 15     because they relate to subject matter not required to be searched by this Authority, namely:   |
| 2. X Claims Nos.: 3,4,14,15 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:  See FURTHER INFORMATION sheet PCT/ISA/210 |
| 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).  |
| Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)   |
| This International Searching Authority found multiple inventions in this international application, as follows:  |
|  |
| As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable dalms.  |
| As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.   |
| As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:   |
|  |
| 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:  |
| .•   |
| Remark on Protest  The additional search fees were accompanied by the applicant's protest.   |
| No protest accompanied the payment of additional search lees.  |

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

Continuation of Box II.2

Claims Nos.: 3,4,14,15

The specific sequences of claims 3,4,14 and 15 have, according to PCT Rule 13ter.1.c, not been searched since the Sequence Listing as present in the description does not comply with WIPO Standard ST 25 prescribed in the administrative instructions under Rule 5.2. The Sequence Listing has been furnished neither in paper form nor in computer readable form as provided for in said instructions and the applicant has not remedied the deficiencies within the time limit fixed in the invitation pursuant to PCT Rule 13ter.1.a.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a prel minary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

## INTERNATIONAL SEARCH REPORT

Internation Application No PCT/US2004/034915

|    | tent document<br>in search report |   | Publication date |  | Palent family member(s)  | Publication date   |
|----|-----------------------------------|---|------------------|--|--|--|
| WO | 02085933                          | A | 31-10-2002       | EP<br>WO<br>US<br>US                   | 1379552 A1<br>02085933 A1<br>2003044429 A1<br>2005147627 A1  | 14-01-2004<br>31-10-2002<br>06-03-2003<br>07-07-2005   |
| WO | 03070761                          | A | 28-08-2003       | AU<br>WO                               | 2003209623 A1<br>03070761 A1   | 09-09-2003<br>28-08-2003   |
| WO | 0143691                           | A | 21-06-2001       | AU<br>CA<br>EP<br>WO<br>JP<br>US<br>ZA | 188 1601 A<br>239 4504 AI<br>123 7570 A2<br>014 3691 A2<br>200450 1061 T<br>200402 2777 A1<br>20020 4635 A | 25-06-2001<br>21-06-2001<br>11-09-2002<br>21-06-2001<br>15-01-2004<br>05-02-2004<br>09-03-2004 |